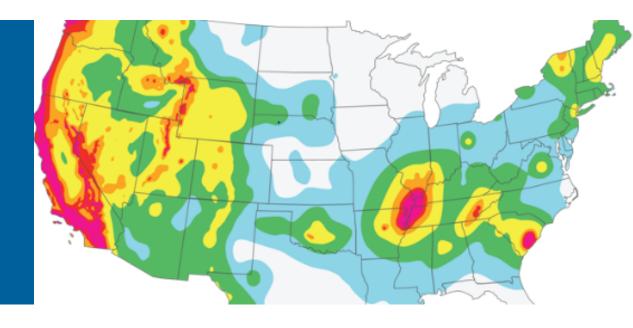


HOW GIS CAN INFORM YOUR PUBLIC MESSAGING



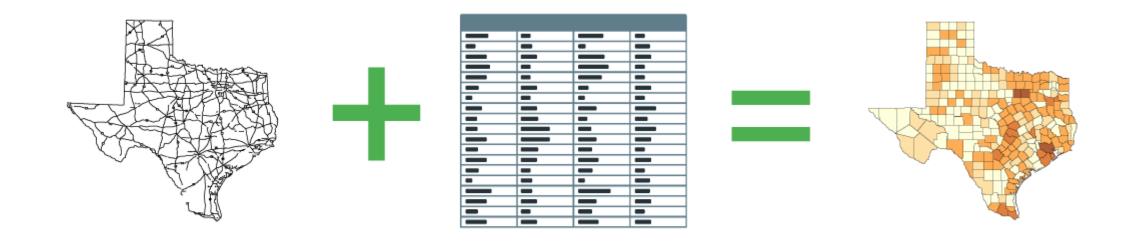
CARMELLA BURDI

Sr. GIS Analyst

A geographic information system is a system designed to capture, store, manipulate, analyze, manage, and present spatial or geographic data. GIS applications are tools that allow users to create interactive queries, analyze spatial information, edit data in maps, and present the results of all these operations

What is a GIS?





WHAT DOES A GIS DO?

A GIS allows you to visualize your data as a map.



WHO DOES GIS?

GIS Scientist: writes algorithms, develops models

GIS Specialist/Analyst: Designs Projects, Maps, Performs Analysis

GIS Technician: works under the direction of a GIS Specialist

Ancillary GIS Duties: Police & Fire Depts, NGO's, City Planning, Resource Management, Marketing & Business

General Public: GIS in cars, UPS, Elections in Florida



GIS BOILS DOWN TO - FOUR SIMPLE IDEAS

01

Create geographic data

02

Manage it

03

Analyze it and...

)4

Display it on a map



THE GEOSPATIAL SCIENCES



Any field which uses location-based information



A field which uses *computers* to analyze spatial data



Think of some fields which use geospatial information



Consider the alternate term "Location Services" to explain what GIS is





HOW DO YOU USE GIS?

We use it everyday! Sometimes without even realizing!



WHAT IS SPATIAL DATA

Critical Infrastructure

Parcels

Transportation

Elevation Contours

Flood Plains

Taxing Districts

Damage Assessments Planimetric Data

Aerial Imagery

Historical Imagery



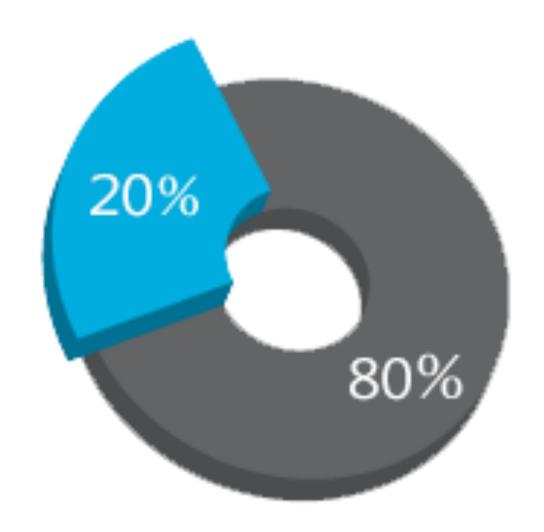
80% OF DATA IS GEOGRAPHIC

Spatial Data

- The location of a water-fountain
- How large a parcel is
- The length of a segment of roadway

Non-Spatial Data

- The owner of a parcel
- The number of blue cars registered in a county
- The value of your home











SOCIAL MEDIA MESSAGING – MAPPING TWEETS AND FACEBOOK MESSAGES



FOR PUBLIC
CONSUMPTION TO AID IN
PUBLIC MESSAGING





SITUATIONAL AWARENESS



DESIGNING DATABASES FOR
POPULATIONS, BUSINESSES,
STRUCTURES, SCHOOLS AND
MORE, WHICH CAN BE
CONSULTED IN THE CASE OF AN
EMERGENCY.



HOW CAN YOU ENGAGE YOUR GIS SUPPORT STAFF?

Engage

Capitalize on your GIS Staff

Create

Create Emergency
Management
Specific Web
Maps

 If you don't already have a log-in and username, ask your GIS staff for one

Consider

Consider what your data is telling you

Anticipate

Think about what's missing



EMERGENCY OPERATIONS GIS CONSIDERATIONS

Do you know where your critical infrastructure is?

In the case of turnover

– can you quickly and
easily train a new
person on the unique
characteristics of your
jurisdiction?

How engaged with the community is your jurisdiction



PUBLIC MESSAGING CONSIDERATI ONS



Clear and concise messaging is key!



Could you provide your residents with better information if you were able to send out maps of affected areas or shelter location information?



Imagine providing URLs of web maps to news agencies or other reporting agencies to help them better inform the population in an emergency



Hands-on! Let's Demosome Mapping Options!





DISCUSSION QUESTIONS

- Would something like this be helpful to you?
- What visualizations do you feel are missing?
- Could you currently create maps like these?
- Would it be helpful to understand what protective action decisions neighboring jurisdictions were issuing to the public and how they're issuing them?

